

An automatic synthesis machine is used for synthesis of compounds using a plurality of vessels, allowing reagents to chemically react with each other. The automatic synthesis machine comprises a selection means for selecting a specific vessel among a plurality of vessels, a display device for displaying the vessel selected by the selection means in a manner such that it can be identified, together with the operation contents (suction and injection) related to the selected vessel, and an analysis means for analyzing a protocol prescribing a series of operational procedures for synthesis of compounds and picked-out commands related to the selected vessel from the protocol.